

Summer Intern 2019



Advancing the Science of **Magnetic Separations**

3058 Research Drive • State College, PA 16801-2782 • USA • tel. 814.441.3399
www.BioMagneticSolutions.com

BioEngineering / Biomedical Internships

Design & Fabrication ➤ Semi-Automated Cellular Immunomagnetic Separation System

Based in [State College, PA](#), [BioMagnetic Solutions](#) is an emerging biotechnology company with deep expertise in immunomagnetic cell separation for T cell (CD3), stem cell (CD34) isolation and rare cell selection and identification. BioMagnetic Solutions is the successor biotech to Immunicon Corp. (NASDAQ: IMMC) that Johnson & Johnson acquired in 2008 for Immunicon's FDA-approved [CELLSEARCH](#)® circulating tumor cell (CTC) product platform. BioMagnetic Solutions is a very exciting place to work and advance one's engineering & product development skills.

[BioMagnetic Solutions](#)' commercial focus is on its [X-GRAFFE](#) system and products for cell selection for CAR-T cell & gene therapy product manufacture. [BioMagnetic Solutions](#) is currently building a new semi-automated cell selection system and we're looking for a Penn State Engineering, Bioengineering, Biomedical Engineering or related student.

Internship Description: BioMagnetic Solutions seeks an Advanced Undergraduate or Masters-level student to assist in the **Design and Fabrication of a Semi-Automated Cellular Immunomagnetic Separation** System**. The ideal candidate would have a good understanding of quantitative chemistry, some knowledge of cells and their biology, a fundamental understanding of system design, some experience in assembling electromechanical simple systems as well as computer and programming skills. This exciting product development / product prototyping opportunity will appeal to a candidate with electronic/mechanical abilities to help our team build a manufacture prototype. Successful candidates will have above all a record of excellent problem solving skills aimed at product development, engineering and prototyping.

** Cellular immunomagnetic separations = cell separations using monoclonal antibodies (mAbs) and BioMagnetic Solutions' nano-magnetic Ferrofluid liquids.

Expected Start Date – end of Spring Semester or sooner

This is an excellent opportunity for a talented, ambitious, energetic student, engineer and/or scientist. Interested candidates who feel they are well qualified for this position should submit a cover letter, CV/résumé, and two references to **Ted L. Liberti, COO** at TLiberti@BioMagneticSolutions.com or via telephone at **814.441.3399**

BioMagnetic Solutions' co-founder, CEO and CSO founded Immunicon Corporation (NASDAQ: IMMC) and led the development of the [CELLSEARCH](#)® circulating tumor cell (CTC) assay now owned and marketed by Johnson & Johnson's Janssen division. [CELLSEARCH](#)® is the only FDA-approved test for the isolation and characterization of CTCs.